

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 980034.417C5	APPLICATION NO. 10/762,210
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Ronald J. Berenson et al.	
		FILING DATE January 20, 2004	GROUP ART UNIT 1651

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

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	AN				
	AO				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AP		Bonini et al., "HSV-TK Gene Transfer into Donor Lymphocytes for Control of Allogeneic Graft-Versus-Leukemia," <i>Science</i> , 276:1719-1724, June 13, 1997.
AQ		Bruno et al., "Positive selection of CD34+ cells by immunoabsorption: factors affecting the final yield and hematopoietic recovery in patients with hematological malignancies and solid tumors," <i>Transfusion and Apheresis Science</i> , 26:103-110, 2002.

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	AA	Dal Porto et al., "A soluble divalent class I major histocompatibility complex molecule inhibits alloreactive T cells at nanomolar concentrations," <i>Proc. Natl. Acad. Sci. USA</i> , 90: 6671-6675, July 1993.
	AB	Fishman-Lobell et al., "CD4 mAb induced apoptosis of peripheral T cells: multiparameter subpopulation analysis by flow cytometry using Attractors™," <i>J. Immunol. Meth.</i> , 257: 71-82, 2001.
	AC	Flens et al., "Efficient expansion of tumor-infiltrating lymphocytes from solid tumors by stimulation with combined CD3 and CD28 monoclonal antibodies," <i>Cancer Immunol. Immunother.</i> , 37:323-328, 1993.
	AD	Friedman et al., "Repertoire Analysis of CD8 ⁺ T Cell Responses to Minor Histocompatibility Antigens Involved in Graft-Versus-Host Disease," <i>J. Immunol.</i> , 161:41-48, 1998.
	AE	Fukumoto et al., "Activation-induced apoptosis of peripheral lymphocytes treated with 7-hydroxystaurosporine, UCN-01," <i>Investigational New Drugs</i> , 17:335-341, 1999
	AF	Fuss et al., "Anti-Interleukin 12 Treatment Regulates Apoptosis of Th1 T Cells in Experimental Colitis in Mice," <i>Gastroenterol.</i> , 117:1078-1088, 1999.
	AG	Fyhr et al., "T cell receptor β-chain repertoire in inclusion body myositis," <i>J. Neuroimmunol.</i> , 91:129-134, 1998.
	AH	Goronzy et al., "T Cell Receptor Repertoire in Rheumatoid Arthritis," <i>Int. Rev. Immunol.</i> , 17:339-363, 1998.
	AI	Goronzy et al., "Thymic function and peripheral T-cell homeostasis in rheumatoid arthritis," <i>TRENDS in Immunol.</i> , 22(5):251-255, May 2001.
	AJ	Greer et al., "T Cell and NK Cell Lymphoproliferative Disorders," <i>Hematology: Am. Soc. Hematol. Educ. Program.</i> , 2001:259-281.
	AK	Haegert et al., "Does a shift in the T-cell receptor repertoire precede the onset of MS?," <i>Neurol.</i> , 53:485-490, 1999.
	AL	Hall et al., "TCRβ spectratyping in RA: evidence of clonal expansions in peripheral blood lymphocytes," <i>Ann. Rheum. Dis.</i> , 57:319-322, 1998.
	AM	Hashimoto et al., "Novel immunosuppressive effect of FK506 by augmentation of T cell apoptosis," <i>Clin. Exp. Immunol.</i> , 125:19-24, 2001.

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	AA	Hayashi et al., "Implications of altered apoptosis in diabetes mellitus and autoimmune disease," <i>Apoptosis</i> , 6:31-45, 2001.
	AB	Hildeman et al., "Reactive Oxygen Species Regulate Activation-Induced T Cell Apoptosis," <i>Immunity</i> , 10:735-744, June 1999.
	AC	Holbrook et al., "Restrictions of T cell receptor β chain repertoire in the peripheral blood of patients with systemic lupus erythematosus," <i>Ann. Rheum. Dis.</i> , 55:627-631, 1996.
	AD	Holtzman et al., "Regulation of T cell apoptosis," <i>Apoptosis</i> , 5:459-471, 2000.
	AE	Inada et al., "T Cell Repertoire in the Liver of Patients with Primary Biliary Cirrhosis," <i>Human Immunol.</i> , 61:675-683, 2000.
	AF	Ino et al., "Activation-induced T cell apoptosis by monocytes from stem cell products," <i>Int. Immunopharmacol.</i> , 1:1307-1319, 2001.
	AG	Kallan et al., "Th1-like Cytokine Production Profile and Individual Specific Alterations in TCRBV-gene Usage of T Cells from Newly Diagnosed Type 1 Diabetes Patients after Stimulation with β -cell Antigens," <i>J. Autoimmunity</i> , 10(6):589-598, December 1997.
	AH	Kang et al., "Clonal Expansion of Infiltrating T Cells in the Spinal Cords of SJL/J Mice Infected with Theiler's Virus," <i>J. Immunol.</i> , 165:583-590, 2000.
	AI	Karadimitris et al., "Abnormal T-cell repertoire is consistent with immune process underlying the pathogenesis of paroxysmal nocturnal hemoglobinuria," <i>Blood</i> , 96:2613-2620, 2000.
	AJ	Kay et al., "Interleukin 4 content in chronic lymphocytic leukemia (CLL) B cells and blood CD8 $^{+}$ T cells from B-CLL patients: impact on clonal B-cell apoptosis," <i>British J. Haematol.</i> , 112:760-767, 2001.
	AK	Kim et al., "CDR3 Size Spectratyping and Sequencing of Spectratype-Derived TCR of Spinal Cord T Cells in Autoimmune Encephalomyelitis," <i>J. Immunol.</i> , 160:509-513, 1998.
	AL	Kirsch et al., "Apoptosis of human T-cells: induction by glucocorticoids or surface receptor ligation in vitro and ex vivo," <i>J. Biol. Regul. Homeost. Agents</i> , 13(2):80-89, April-June 1999.
	AM	Koetz et al., "T cell homeostasis in patients with rheumatoid arthritis," <i>Proc. Natl. Acad. Sci. USA</i> , 97(16):9203-9208, August 1, 2000.
	AN	Kolowos et al., "Detection of restricted junctional diversity of peripheral T cells in SLE patients by spectratyping," <i>Lupus</i> , 6:701-707, 1997.

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	AA	Kornacker et al., "Survivin expression correlates with apoptosis resistance after lymphocyte activation and is found preferentially in memory T cells," <i>Immunol. Letters</i> , 76:169-173, 2001.
	AB	Krawczyk et al., "Cbl-b Is a Negative Regulator of Receptor Clustering and Raft Aggregation in T Cells," <i>Immunity</i> , 13:463-473, October 2000.
	AC	Lamy et al., "Large Granular Lymphocyte Leukemia," <i>Cancer Control</i> , 5(1):25-33, January 5, 1998. Available at www.moffitt.usf.edu .
	AD	Lanzavecchia et al., "In vitro selective expansion of allergen specific T cells from atopic patients," <i>Clinical Exp. Immunol.</i> , 52:21-28, 1983.
	AE	Laport et al., "Adoptive transfer of costimulated T cells induces lymphocytosis in patients with relapsed/refractory non-Hodgkin lymphoma following CD34+ selected hematopoietic cell transplantation," <i>Blood</i> , 102(6):2004-2013, September 15, 2003.
	AF	Laytragoon-Lewin et al., "Alteration of Cellular Mediated Cytotoxicity, T Cell Receptor Zeta (TcR ζ) and Apoptosis Related Gene Expression in Nasopharyngeal Carcinoma (NPC) Patients: Possible Clinical Relevance," <i>Anticancer Res.</i> , 20:1093-1100, 2000.
	AG	Lehmann et al., "Determinant spreading and the dynamics of the autoimmune T-cell repertoire," <i>Immunol. Today</i> , 14(5):203-208, 1993.
	AH	McCarty, "Upregulation of lymphocyte apoptosis as a strategy for preventing and treating autoimmune disorders: a role for whole-food vegan diets, fish oil and dopamine agonists," <i>Med. Hypotheses</i> , 57(2):258-275, 2001.
	AI	McFarland et al., "Amelioration of Autoimmune Reactions By Antigen-Induced Apoptosis of T Cells," <i>Adv. Exp. Med. Biol.</i> , 383:157-166, 1995.
	AJ	McIntosh et al., "Analysis of the T Cell Receptor $\text{V}\alpha$ Repertoire in Hashimoto's Thyroiditis: Evidence for the Restricted Accumulation of CD8 $^{+}$ T Cells in the Absence of CD4 $^{+}$ T Cell Restriction," <i>J. Clin. Endocrinol. and Metabol.</i> , 82(4):1140-1146, 1997.
	AK	McIntosh et al., "Induction of Apoptosis in Activated T Cell Blasts by Suppressive Macrophages: A Possible Immunotherapeutic Approach for Treatment of Autoimmune Disease," <i>Cellular Immunol.</i> , 193:24-35, 1999.
	AL	Melms et al., "Specific immune complexes augment in vitro acetylcholine receptor-specific T-cell proliferation," <i>Neurol.</i> , 43:583-588, 1993.

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	AA	Migita et al., "FK506 Markedly Enhances Apoptosis of Antigen-Stimulated Peripheral T Cells By Down-Regulation of Bcl-x _L ," <i>Transplantation</i> , 68(7):1018-1023, October 15, 1999.
	AB	Murata et al., "Limited TCR Repertoire of Infiltrating T Cells in the Kidneys of Sjögren's Syndrome Patients with Interstitial Nephritis," <i>J. Immunol.</i> , 155:4084-4089, 1995.
	AC	Murphy et al., "Clinical Clearing of Psoriasis by 6-Thioguanine Correlates With Cutaneous T-Cell Depletion via Apoptosis," <i>Arch. Dermatol.</i> , 135:1495-1502, 1999.
	AD	Musette et al., "Expansion of a recurrent V β 5.3 ⁺ T-cell population in newly diagnosed and untreated HLA-DR2 multiple sclerosis patients," <i>Proc. Natl. Acad. Sci. USA</i> , 93:12461-12466, October 1996.
	AE	Nagahara et al., "Evidence that FTY720 induces T cell apoptosis in vivo," <i>Immunopharmacol.</i> , 48:75-85, 2000.
	AF	Nakashima et al., "The Role of T Cells Expressing TcR V β 13 in Autoimmune Thyroiditis Induced by Transfer of Mouse Thyroglobulin-Activated Lymphocytes: Identification of Two Common CDR3 Motifs," <i>Clin. Immunol. and Immunopathol.</i> , 80(2):204-210, August 1996.
	AG	Namekawa et al., "Killer Cell Activating Receptors Function as Costimulatory Molecules on CD4 ⁺ CD28 ^{null} T Cells Clonally Expanded in Rheumatoid Arthritis," <i>J. Immunol.</i> , 165:1138-1145, 2000.
	AH	Nikolic-Paterson, "T-Cell-Specific Therapy in Autoimmune Glomerulonephritis," <i>Am. J. Kidney Dis.</i> , 38(6):1321-1328, December 2001.
	AI	Nomura et al., "Twenty-five types of T-cell receptor V β family repertoire in patients with Kawasaki syndrome," <i>Eur. J. Pediatr.</i> , 157:981-986, 1998.
	AJ	O'Reilly et al., "Apoptosis and autoimmune disease," <i>Inflamm. Res.</i> , 48:5-21, 1999.
	AK	Ogura et al., "Induction of apoptosis by novel synthesized acylamides of human lymphocytes," <i>Biochimica et Biophysica Acta</i> , 1483:111-118, 2000.
	AL	Okamoto et al., "T Cell Repertoire in Primary Biliary Cirrhosis: A Common T Cell Clone and Repertoire Change After Treatment," <i>J. Clin. Immunol.</i> , 21(4):278-285, 2001.
	AM	Olive et al., "Restricted junctional diversity of T cell receptor δ gene rearrangements expressed in systemic lupus erythematosus (SLE) patients," <i>Clin. Exp. Immunol.</i> , 97:430-438, 1994.

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	AA	Paillot et al., "Activation-Dependent Lymphocyte Apoptosis Induced by Methotrexate," <i>Transplant. Proc.</i> , 30:2348-2350, 1998.
	AB	Perkins et al., "Restriction of the TCR Repertoire Inhibits the Development of Memory T Cells and Prevents Autoimmunity in <i>lpr</i> Mice," <i>J. Immunol.</i> , 156:4961-4968, 1996.
	AC	Pinkoski et al., "Lymphocyte apoptosis: refining the paths to perdition," <i>Curr. Opin. Hematol.</i> , 9:43-49, 2002.
	AD	Planey et al., "Glucocorticoid-Induced Apoptosis in Lymphocytes," <i>Biochem. Biophys. Res. Commun.</i> , 279:307-312, 2000.
	AE	Prinz et al., "T cell clones from psoriasis skin lesions can promote keratinocyte proliferation <i>in vitro</i> via secreted products," <i>Eur. J. Immunol.</i> , 24:593-598, 1994.
	AF	Prinz et al., "Selection of conserved TCR VDJ rearrangements in chronic psoriatic plaques indicates a common antigen in psoriasis vulgaris," <i>Eur. J. Immunol.</i> , 29:3360-3368, 1999.
	AG	Qiao et al., "T cell receptor repertoire and mitotic responses of lamina propria T lymphocytes in inflammatory bowel disease," <i>Clin. Exp. Immunol.</i> , 97:303-308, 1994.
	AH	Ravirajan et al., "Apoptosis in Human Autoimmune Diseases," <i>Intern. Rev. Immunol.</i> , 18:563-589, 1999.
	AI	Rawlings et al., "Spontaneous Apoptosis in Lymphocytes From Patients With Wiscott-Aldrich Syndrome: Correlation of Accelerated Cell Death and Attenuated Bcl-2 Expression," <i>Blood</i> , 94(11):3872-3882, December 1, 1999.
	AJ	Renz et al., "T cell receptor-V β repertoire in allergen-specific sensitization and increased airway responsiveness," <i>Allergy</i> , 50(suppl. 25):15-19, 1995.
	AK	Riddell, S.R. et al., "The use of anti-CD3 and anti-CD28 monoclonal antibodies to clone and expand human antigen-specific T cells," <i>J. Immunological Meth.</i> , 128:189-201, 1990.
	AL	Rodriguez-Palmero et al., "Triggering of T cell proliferation through CD28 induces GATA-3 and promotes T helper type 2 differentiation <i>in vitro</i> and <i>in vivo</i> ," <i>Eur. J. Immunol.</i> , 29:3914-3924, 1999.
	AM	Sasajima et al., "Detection of T cell Apoptosis after Major Operations," <i>Eur. J. Surg.</i> , 165:1020-1023, 1999.
	AN	Schmidt et al., "The Repertoire of CD4 $^{+}$ CD28 $^{-}$ T Cells in Rheumatoid Arthritis," <i>Molecular Med.</i> , 2(5):608-618, September 1996.
	AO	Schmidt et al., "T-cell apoptosis <i>in situ</i> in experimental autoimmune encephalomyelitis following methylprednisolone pulse therapy," <i>Brain</i> , 123:1431-1441, 2000.
	AP	Schneider et al., "Experimental autoimmune myositis in the Lewis rat: lack of spontaneous T-cell apoptosis and therapeutic response to glucocorticosteroid application," <i>J. Neuroimmunol.</i> , 107:83-87, 2000.

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	AA	Smith et al., "In vitro T cell proliferation from kidney allograft biopsies with unremarkable pathology: new strategies for an old problem," <i>Transplantation</i> , 73(1):142-145, January 15, 2002.
	AB	Snyder et al., "Formation of the Killer Ig-Like Receptor Repertoire on CD4 ⁺ CD28 ^{null} T Cells," <i>J. Immunol.</i> , 168:3839-3846, 2002.
	AC	Söderström et al., "Autoimmune T cell repertoire in optic neuritis and multiple sclerosis: T cells recognizing multiple myelin proteins are accumulated in cerebrospinal fluid," <i>J. Neurol., Neurosurg., and Psych.</i> , 57:544-551, 1994.
	AD	Stahnke et al., "Activation of apoptosis pathways in peripheral blood lymphocytes by in vivo chemotherapy," <i>Blood</i> , 98(10):3066-3073, November 15, 2001.
	AE	Strauss et al., "Induction of apoptosis and modulation activation and effector function in T cells by immunosuppressive drugs," <i>Clin Exp. Immunol.</i> , 128:255-266, 2002.
	AF	Takemura et al., "T Cell Activation in Rheumatoid Synovium Is B Cell Dependent," <i>J. Immunol.</i> , 167:4710-4718, 2001.
	AG	Tokushige et al., "Abnormal T Cell Activation and Skewed T Cell Receptor V β Repertoire Usage in Japanese Patients with Idiopathic Portal Hypertension," <i>Clin. Immunol. and Immunopathol.</i> , 75(3):206-213, 1995.
	AH	Trickett et al., "Ex vivo expansion of functional T lymphocytes from HIV-infected individuals," <i>J. Immunological Meth.</i> , 262:71-83, 2002.
	AI	Vavassori et al., "Restricted TCR Repertoire and Long-Term Persistence of Donor-Derived Antigen-Experienced CD4 ⁺ T Cells in Allogeneic Bone Marrow Transplantation Recipients," <i>J. Immunol.</i> , 157:5739-5747, 1996.
	AJ	Venuprasad et al., "Human Neutrophil-Expressed CD28 Interacts with Macrophage B7 to Induce Phosphatidylinositol 3-Kinase-Dependent INF- γ Secretion and Restriction of <i>Leishmania</i> Growth," <i>J. Immunol.</i> , 169:920-928, 2002.
	AK	Warrington et al., "CD4+, CD28- T Cells in Rheumatoid Arthritis Patients Combine Features of the Innate and Adaptive Immune Systems," <i>Arthritis & Rheumatism</i> , 44(1):13-20, January 2001.
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